
Research Project Title

Calculating Road User Cost for Specific Sections of Highway for Use in Alternative Contracting Projects

Purpose of the Project

The purpose of the project is to assist TDOT by developing and automating a TDOT-specific methodology that can quickly and accurately compute road user costs. The specific objectives are to: a) determine the current best practices in calculating road user costs, b) identify various datasets required to compute road user costs, c) analyze the availability and ease of obtaining various datasets, d) collect necessary datasets and develop a comprehensive database, e) develop an automated tool to compute road user costs, and f) develop an online training module. The automation tool will be designed and developed to ensure that minimal inputs are required from the TDOT engineers to compute road user costs for future construction projects.

Scope and Significance

The scope of the research project includes:

- Review of existing literature,
- Comparison of existing road user cost calculation methodologies,
- Development of an advanced road user cost calculation methodology,
- Development of a road user cost calculation tool,
- Case studies to demonstrate the use of the methodology and the tool, and
- Training and implementation of the methodology and the tool.

Expected Outcomes

The methodology and tool will enable TDOT to quickly and accurately compute road user costs for future construction projects with minimal inputs from TDOT engineers. The implementation of the methodology and tool will enable TDOT to evaluate the bids for future construction projects that uses alternative project delivery methods such as A+B.

Time Period

The original time period for the project is from November 15, 2019 to November 30, 2020. The project completion date may change because of the current unprecedented situation.

Contact Information

Principal Investigator (PI): K. Joseph Shrestha Department of Engineering, Engineering Technology, and Surveying East Tennessee State University 1276 Gilbreath Dr, Johnson City, TN 37614 423-439-7821 shresthak@etsu.edu	TDOT Lead Staff: Jamie Fitzpatrick Construction Division 615-741-0781 Jamie.Fitzpatrick@tn.gov
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